

## XP-002203750

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JP19840231427 19841105; JP19930078562 19841105; [Based on J06122803]

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C08L33/10

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PA - (MITR) MITSUBISHI RAYON CO LTD

PN - JP6122803 A 19940506 DW199423 C08L33/10 005pp

- JP8009683B B2 19960131 DW199609 C08L33/10 005pp

PR - JP19840231427 19841105; JP19930078562 19841105

XA - C1994-084669

XIC - C08F-002/06 ; C08F-220/04 ; C08F-220/12 ; C08K-003/00 ; C08K-003/08 ;  
C08K-005/00 ; C08L-033/10

XR - 1984-128965 1985-205437 1985-278607

AB - J06122803 Resin absorbing capacity of radiation ray and  
electromagnetic wave is improved by (a) a monomer unit comprising  
mainly a methacrylate and (b) at least one of monomer units comprising  
salts of at least one of rare earth elements comprising La, Ce, Pr,  
Dy, Tm, Yb, Lu with an unsaturated fatty acid of  $\text{CH}_2=\text{C}(\text{R}_1)\text{-COOH}$  or  
 $\text{CH}_2=\text{C}(\text{R}_1)\text{-CO}_2\text{-R}_2\text{-OCO-R}_3\text{-COOH}$  (wherein  $\text{R}_1 = \text{H}$ , 1-3C hydrocarbon  
moiety,  $\text{R}_2 = 2\text{-}6\text{C}$  alkylene,  $\text{R}_3 = 2\text{-}6\text{C}$  saturated or unsaturated  
hydrocarbon moiety).

- Pref. resin comprises 0.001-35 wt.% of a rare earth element based on  
the resin by wt. The mixt. is polymerised in a mould, with (c) a  
solvent with solubility for the above components, containing at least  
one of  $\text{R}_1\text{-COOH}$ ,  $\text{R}_2\text{-OCO-R}_3\text{-COOH}$ ,  $\text{CH}_2=\text{C}(\text{R}_4)\text{-CO}_2\text{-}(\text{A}_1\text{-O-})_n\text{H}$ ,  
 $\text{CH}_2=\text{C}(\text{R}_3)\text{-CO}_2\text{-R}_6\text{-OH}$ ,  $\text{R}_7\text{-OH}$ ,  $\text{R}_8=\text{(-A}_2\text{-O-)}_m\text{H}$  (wherein  $\text{R}_1, = \text{H}$ , 1-20C  
hydrocarbon moiety,  $\text{R}_2=\text{H}$ , 1-9C hydrocarbon moiety,  $\text{R}_3=\text{H}$ , 1-4C  
saturated or unsaturated hydrocarbon moiety,  $\text{R}_4=\text{H}$ , methyl,  $\text{A}_1=2\text{-}6\text{C}$   
alkylene,  $n=0$ , integer of 1-10,  $\text{R}_3=\text{H}$ , methyl,  $\text{R}_6=2\text{-}6\text{C}$  alkylene,  
 $\text{R}_7=3\text{-}10\text{C}$  saturated or unsaturated hydrocarbon moiety,  $\text{R}_8=\text{OH}$ , 1-10C  
saturated or unsaturated hydrocarbon moiety,  $\text{A}_2=2\text{-}4\text{C}$  alkylene,  $m =$   
integer of 1-10) and (d) a polymerising catalyst.

- USE/ADVANTAGE - The resin has selective absorption of radiation rays  
and electromagnetic waves caused by rare earth elements, satisfactory  
weatherability and improved refractive index. It can be used as an  
optical filter, lenses, lighting cover, screen for imaging, protecting  
filter for radiation ray, scintillator, and luminescent  
material.(Dwg.0/1)

IW - RESIN CONTAIN RARE EARTH ELEMENT ABSORB RADIATE COMPRISE METHACRYLATE  
SALT RARE EARTH METAL

IKW - RESIN CONTAIN RARE EARTH ELEMENT ABSORB RADIATE COMPRISE METHACRYLATE  
SALT RARE EARTH METAL

NC - 001

OPD - 1984-11-05

ORD - 1994-05-06

PAW - (MITR) MITSUBISHI RAYON CO LTD

TI - Resin contg. rare earth element with absorption of radiation -

comprising methacrylate and salt of rare earth metal

- A01 - [001] 017 ; H0022 H0011 ; G0271-R G0260 G0022 D01 D12 D10 D51 D53 F36 F35 D61-R D83 D84 D85 D86 La 9A Tr Ce Pr Dy Tm D58 ; G0260-R G0022 D01 D12 D10 D51 D53 ; H0282 ; L9999 L2528 L2506 ; L9999 L2664 L2506 ; S9999 S1434 ; P0088 ;
- [002] 017 ; H0022 H0011 ; G0271-R G0260 G0022 D01 D12 D10 D51 D53 F36 F35 D11 D58 D61-R D89 D90 D91 D92 D93 D94 F41 La 9A Tr Ce Pr Dy Tm ; G0260-R G0022 D01 D12 D10 D51 D53 ; H0282 ; L9999 L2528 L2506 ; L9999 L2664 L2506 ; S9999 S1434 ; P0088 ;
- [003] 017 ; G0271-R G0260 G0022 D01 D12 D10 D51 D53 F36 F35 D61-R D83 D84 D85 D86 La 9A Tr Ce Pr Dy Tm D58 ; G0271-R G0260 G0022 D01 D12 D10 D51 D53 F36 F35 D11 D58 D61-R D89 D90 D91 D92 D93 D94 F41 La 9A Tr Ce Pr Dy Tm ; G0260-R G0022 D01 D12 D10 D51 D53 ; H0282 ; L9999 L2528 L2506 ; L9999 L2664 L2506 ; S9999 S1434 ; H0033 H0011 ; P0088 ;
- [004] 017 ; B9999 B4251 B4240 ; B9999 B4444 B4240 ; B9999 B4728 B4568 ; Q9999 Q8355 Q8264 ; Q9999 Q7567 ; Q9999 Q8286-R Q8264 ; Q9999 Q7512 ; N9999 N5743 ; N9999 N6440-R ; ND09 ; B9999 B3510-R B3372 ;
- [005] 017 ; C999 C000-R ; C999 C293 ;
- [006] 017 ; D01 D11 D10 D12 D50 D53 D51 D58 D63 D60 D82 D81 D83 D84 D85 D86 D87 D88 D90 D89 D91 D92 D93 D94 F27 F26 F34 F36 F35 F41 ; A999 A475 ;